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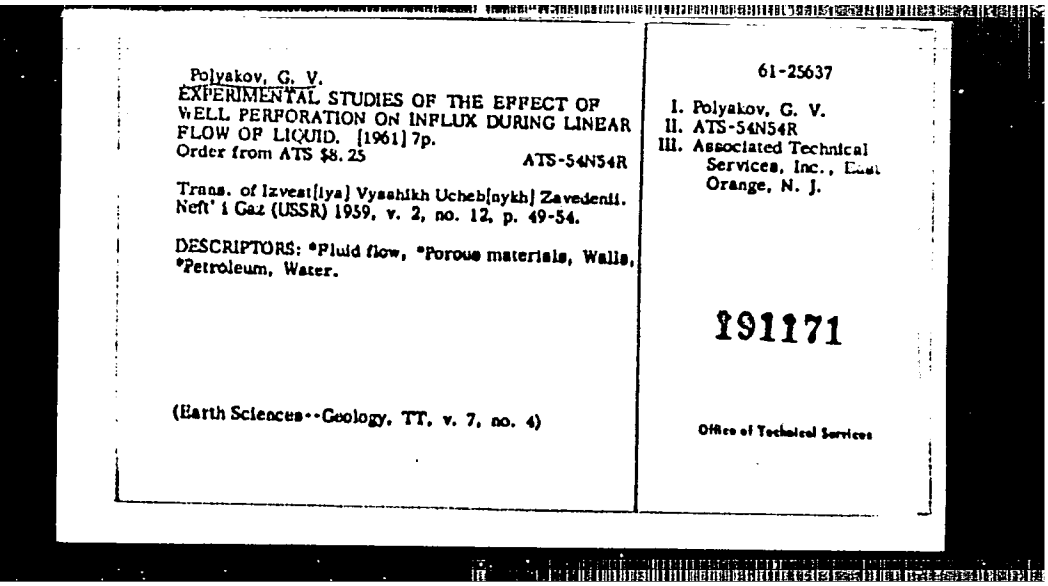

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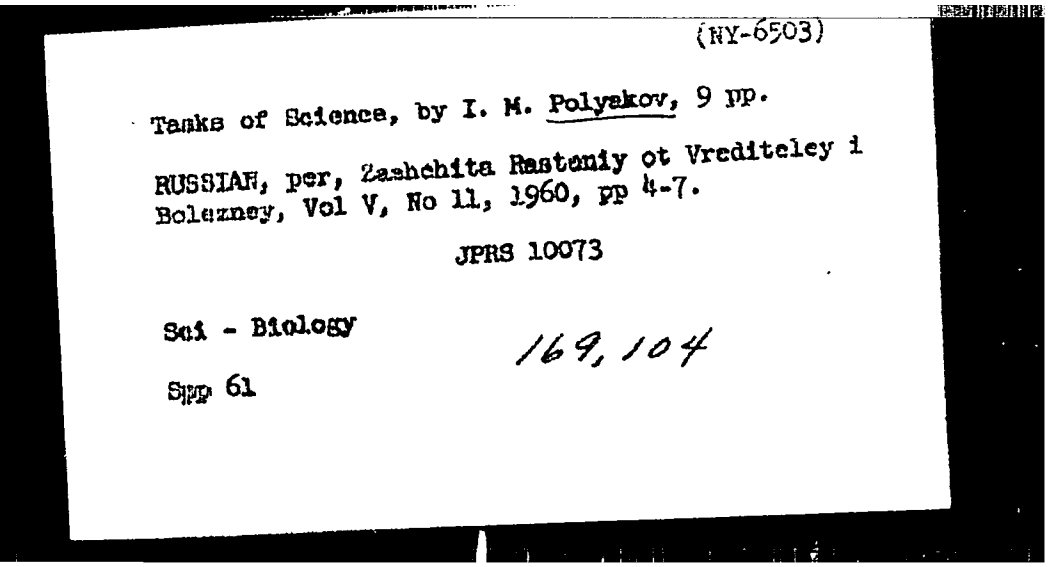

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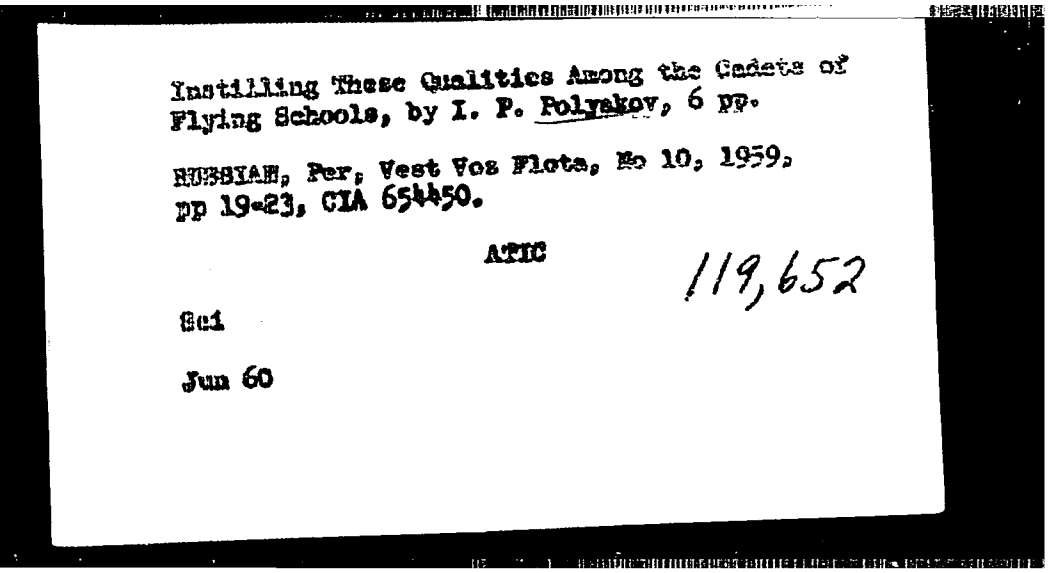

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DESCRIPTORS: *Pest control, USSR.

(Agriculture, TT, v. 6, no. 2)

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DESCRIPTORS: *Gases, Ignition, Nitrogen, Oxygen, Methanes.

The formula of Semenov connecting the lower limit of spontaneous ignition with the diameter of the reaction vessel for combustible mixtures diluted with inert gases is applicable to their ignition by a heated wire. The dependence of the lower limit upon the diameter and, consequently, the applicability of the Semenov formula is due to the induction period during which initial explosion centers accumulate up to a limit required for the explosion. The induction period and, consequently, the velocity of accumulation of the crit-
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